SRS-Z1

SERVICE MANUAL

REVISED

Ver 1.2 1999. 09

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

SPECIFICATIONS

Amplifier

Power output	3 W + 3 W
Input impedance	4.7 kΩ (at 1 kHz)
Input	Stereo mini jack × 2 (INPUT1, 2)
Dimensions	Approx. 140 × 40 × 140 mm ($5^5/_8 \times 1^5/_8 \times 5^5/_8$ in.) (w/h/d)
Mass	Approx. 590 g 1lb 5 oz

Speakers

System	Full-range, bass reflex type
Speaker unit	Magnetically shielded ø39 mm ($1^9/_{16}$ inch)
Nominal Impedance	8 Ω
Rated input power	3 W
Dimensions	Approx. 80 × 176 × 80 mm ($3^1/_4 \times 7 \times 3^1/_4$ in.) (w/h/d)
Mass	Approx. 380 g 13 oz

General

Power requirement	DC IN 9 V jack accepts the supplied Sony AC power adaptor
Supplied accessories	AC power adaptor (1) Connecting cord (stereo miniplug ↔ stereo miniplug) (1)

Design and specifications are subject to change without notice.

STEREO ACTIVE SPEAKER SYSTEM

MICROFILM

SONY®

TABLE OF CONTENTS

1. GENERAL ····· 2

2. DIAGRAMS

2-1. IC Block Diagram ····· 3

2-2. Printed Wiring Board ····· 4

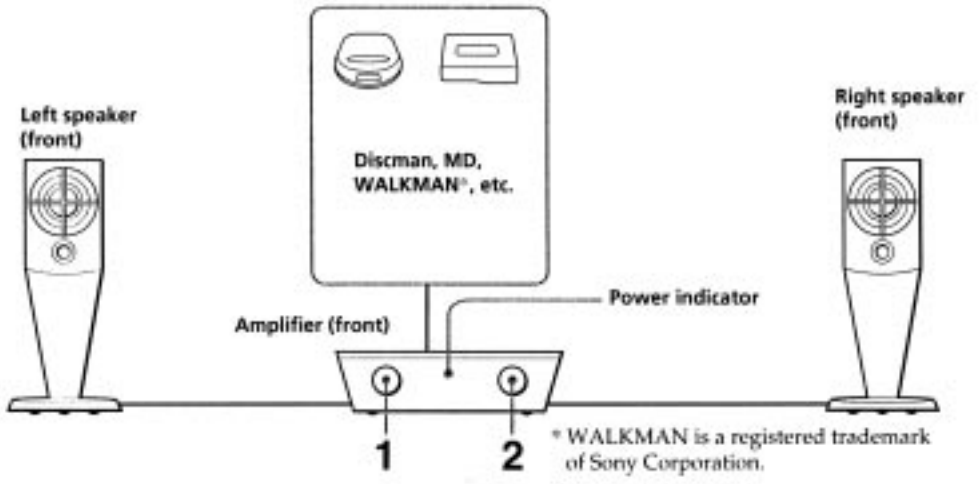
2-3. Schematic Diagram ····· 5

3. EXPLODED VIEWS ····· 7 ·····

4. ELECTRICAL PARTS LIST ····· 9 ·····

SECTION 1
GENERAL

This section is extracted from instruction manual.



1 Turn the POWER switch to turn on the system.
The POWER indicator lights up.

2 Adjust the volume with the VOLUME control.

Note

- Turn off the MEGA BASS (Walkman) or BASS BOOST (Discman, etc.) function as it may cause sound distortion.
- When you connect two audio equipment to the unit and play them at the same time, both sound will be mixed and come from the speakers. Therefore, be sure to turn off either of the equipment that you do not use.

After listening, turn the POWER switch to turn off the system. The POWER indicator goes out.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

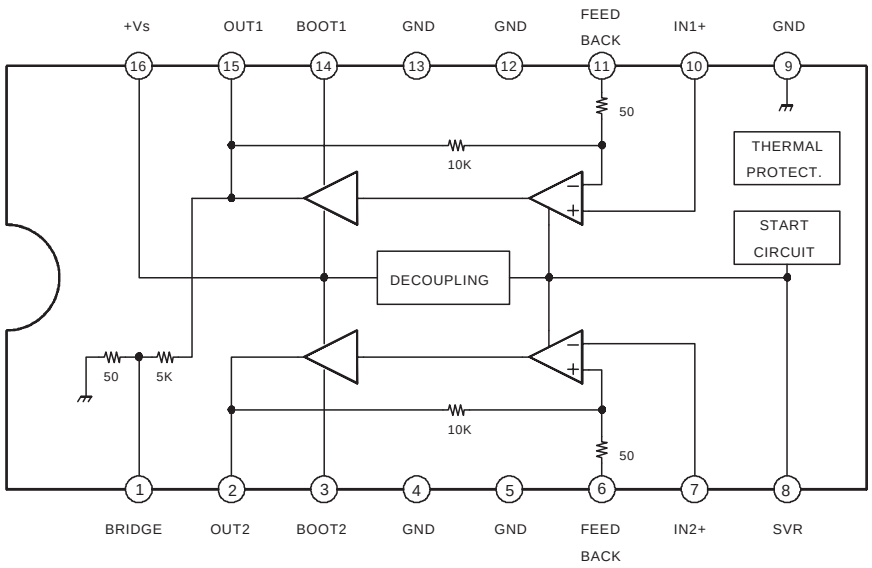
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 2
DIAGRAMS

2-1. IC BLOCK DIAGRAM

• IC1, IC2 TEA2025B



Note on Printed Wiring Board:

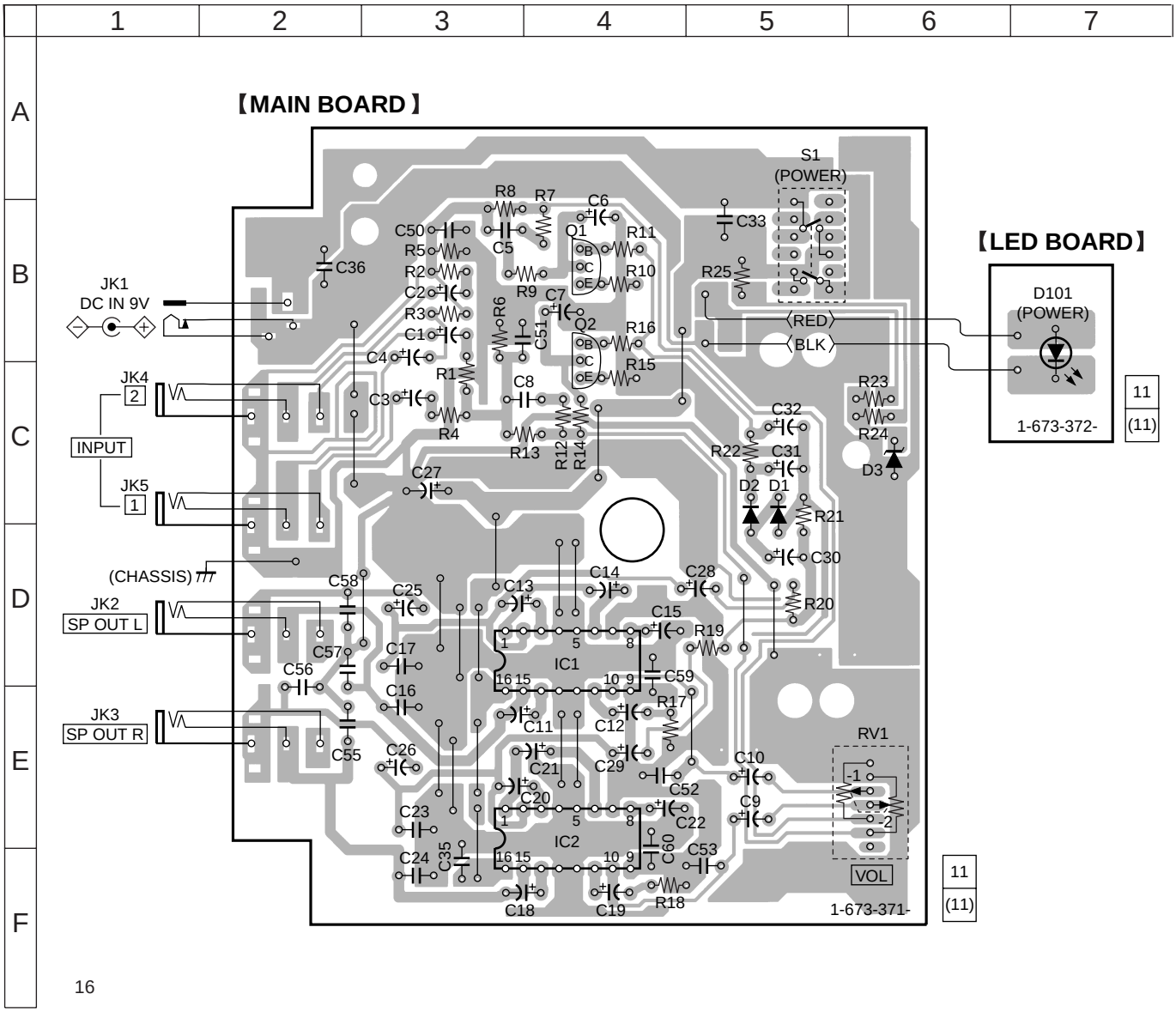
- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- **B +** : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : AUDIO signal

2-2. PRINTED WIRING BOARD

• Refer to page 3 for Note on Printed Wiring Board.

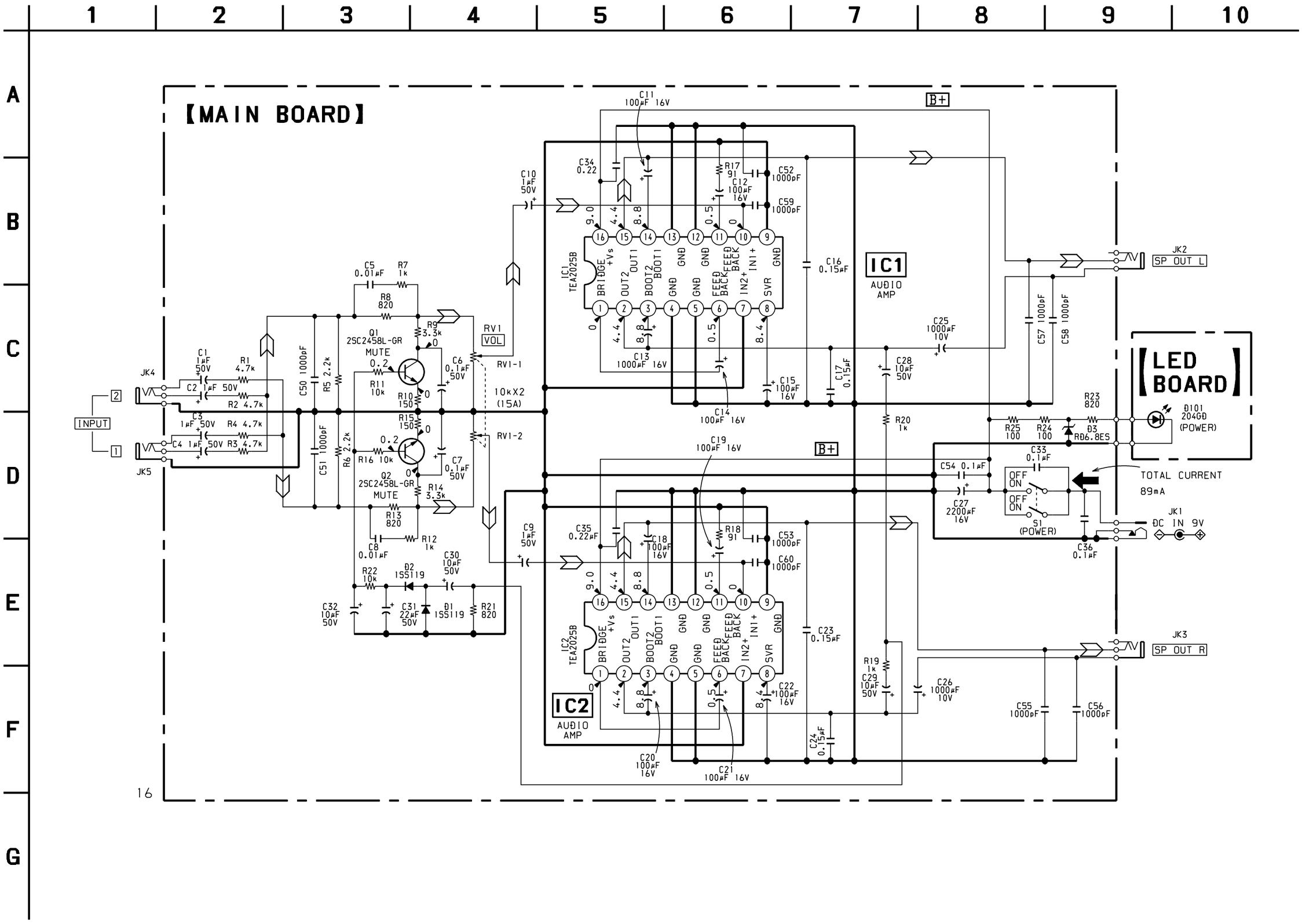


• **Semiconductor Location**

Ref. No.	Location
D1	C-5
D2	C-5
D3	C-6
D101	B-7
IC1	D-4
IC2	E-4
Q1	B-4
Q2	C-4

2-3. SCHEMATIC DIAGRAM

• Refer to page 3 for IC Block Diagram and Note on Schematic Diagram.

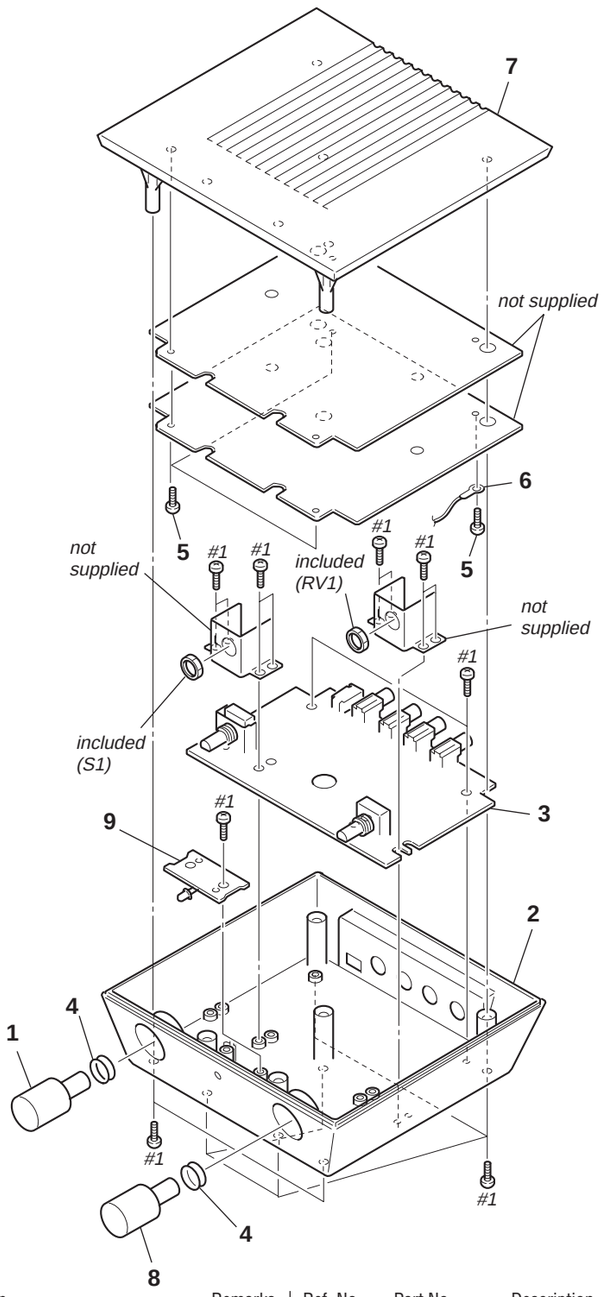


SECTION 3
EXPLODED VIEWS

NOTE:

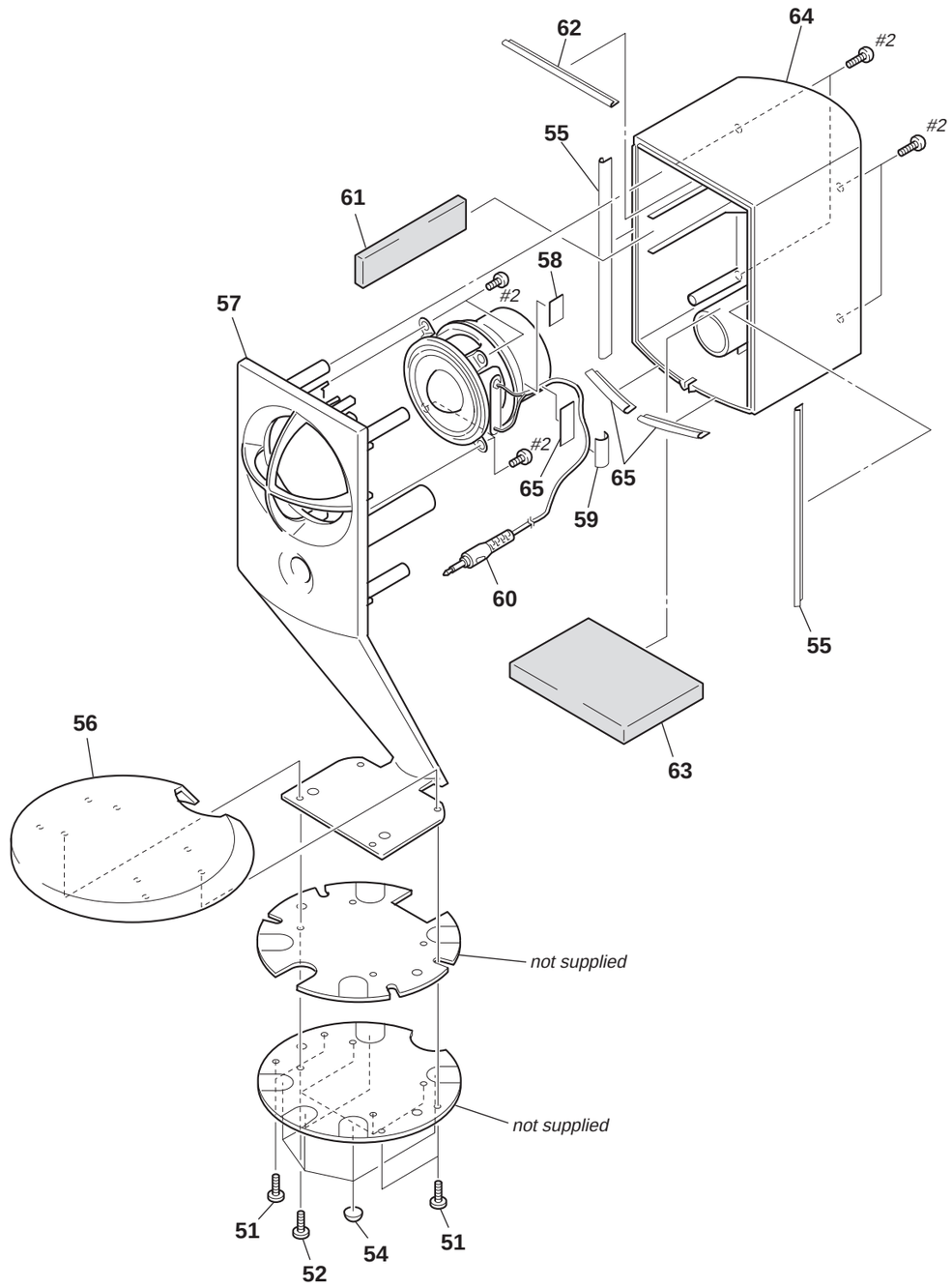
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

3-1. AMP SECTION



Ref. No.	Part No.	Description	Remarks
1	4-218-088-01	KNOB (POWER)	
2	4-218-087-01	CABINET, LOWER	
* 3	A-4542-583-A	MAIN BOARD, COMPLETE	
4	4-964-032-01	SPRING, COIL	
5	3-896-913-11	SCREW(B2 × 6), P3 TAPPING	
6	7-623-508-01	LUG,3	
7	4-218-086-01	CABINET, UPPER	
8	4-218-088-11	KNOB (VOLUME)	
9	1-673-372-11	LED BOARD	
#1	7-685-133-19	SCREW +P 2.6 × 6 TYPE2 NON-SLIT	

3-2. SPEAKER SECTION



Ref. No.	Part No.	Description	Remarks
51	3-948-339-01	SCREW, TAPPING	
52	3-337-534-12	SCREW (M1.7 × 5.0)	
54	3-740-607-01	CUSHION	
* 55	4-944-482-11	SPACER (75 × 7)	
56	4-218-083-01	COVER (UPPER)	
57	4-218-081-01	CABINET, FRONT	
58	4-982-232-01	SHEET, BLIND	
* 59	4-218-323-01	PACKING (2)	
60	1-769-080-41	CORD(WITH PLUG)	
61	4-220-945-01	ABSORBENT (2), ACOUSTIC	
* 62	4-218-322-01	PACKING (1)	
* 63	4-218-321-01	ABSORBENT, ACOUSTIC	
64	4-218-082-01	CABINET, REAR	
65	3-899-584-01	CUSHION (BATT)	
#2	7-621-284-20	SCREW +P 2.6 × 6	

SECTION 4
ELECTRICAL PARTS LIST

LED **MAIN**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remarks
*	1-673-372-11	LED BOARD			
		**********			
		< LED >			
D101	8-719-812-43	LED 204GD (POWER)			
**********					
*	A-4542-583-A	MAIN BOARD, COMPLETE			
		**********			
	7-623-508-01	LUG,3			
		< CAPACITOR >			
C1	1-126-960-11	ELECT	1uF	20%	50V
C2	1-126-960-11	ELECT	1uF	20%	50V
C3	1-126-960-11	ELECT	1uF	20%	50V
C4	1-126-960-11	ELECT	1uF	20%	50V
C5	1-130-483-00	MYLAR	0.01uF	5%	50V
C6	1-126-956-91	ELECT	0.1uF	20%	50V
C7	1-126-956-91	ELECT	0.1uF	20%	50V
C8	1-130-483-00	MYLAR	0.01uF	5%	50V
C9	1-126-960-11	ELECT	1uF	20%	50V
C10	1-126-960-11	ELECT	1uF	20%	50V
C11	1-126-933-11	ELECT	100uF	20%	16V
C12	1-126-933-11	ELECT	100uF	20%	16V
C13	1-126-933-11	ELECT	100uF	20%	16V
C14	1-126-933-11	ELECT	100uF	20%	16V
C15	1-126-933-11	ELECT	100uF	20%	16V
C16	1-137-423-11	MYLAR	0.15uF	5%	50V
C17	1-137-423-11	MYLAR	0.15uF	5%	50V
C18	1-126-933-11	ELECT	100uF	20%	16V
C19	1-126-933-11	ELECT	100uF	20%	16V
C20	1-126-933-11	ELECT	100uF	20%	16V
C21	1-126-933-11	ELECT	100uF	20%	16V
C22	1-126-933-11	ELECT	100uF	20%	16V
C23	1-137-423-11	MYLAR	0.15uF	5%	50V
C24	1-137-423-11	MYLAR	0.15uF	5%	50V
C25	1-126-926-11	ELECT	1000uF	20%	10V
C26	1-126-926-11	ELECT	1000uF	20%	10V
C27	1-126-597-51	ELECT	2200uF	20%	16V
C28	1-126-964-11	ELECT	10uF	20%	50V
C29	1-126-964-11	ELECT	10uF	20%	50V
C30	1-126-964-11	ELECT	10uF	20%	50V
C31	1-126-965-11	ELECT	22uF	20%	50V
C32	1-126-964-11	ELECT	10uF	20%	50V
C33	1-162-851-11	CERAMIC	0.1uF		16V
C34	1-136-169-00	FILM	0.22uF	5%	50V
C35	1-136-169-00	FILM	0.22uF	5%	50V
C36	1-162-851-11	CERAMIC	0.1uF		16V
C50	1-162-294-31	CERAMIC	0.001uF	10%	50V
C51	1-162-294-31	CERAMIC	0.001uF	10%	50V
C52	1-162-294-31	CERAMIC	0.001uF	10%	50V
C53	1-162-294-31	CERAMIC	0.001uF	10%	50V
C54	1-136-165-00	FILM	0.1uF	5%	50V
C55	1-162-294-31	CERAMIC	0.001uF	10%	50V
C56	1-162-294-31	CERAMIC	0.001uF	10%	50V
C57	1-162-294-31	CERAMIC	0.001uF	10%	50V
C58	1-162-294-31	CERAMIC	0.001uF	10%	50V
C59	1-162-294-31	CERAMIC	0.001uF	10%	50V
C60	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< DIODE >			
D1	8-719-911-19	DIODE 1SS119-25TD			
D2	8-719-911-19	DIODE 1SS119-25TD			
D3	8-719-109-97	DIODE RD6.8ES-T1B2			
		< IC >			
IC1	8-759-512-88	IC TEA2025B			
IC2	8-759-512-88	IC TEA2025B			
		< JACK >			
JK1	1-569-966-11	JACKE, DC (DC IN 9V)			
JK2	1-566-822-11	JACK (SP OUT L)			
JK3	1-566-822-11	JACK (SP OUT R)			
JK4	1-566-822-11	JACK (INPUT 2)			
JK5	1-566-822-11	JACK (INPUT 1)			
		< TRANSISTOR >			
Q1	8-729-205-83	TRANSISTOR	2SC2458L-GR-TPE4		
Q2	8-729-205-83	TRANSISTOR	2SC2458L-GR-TPE4		
		< RESISTOR >			
R1	1-249-425-11	CARBON	4.7K	5%	1/4W F
R2	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3	1-249-425-11	CARBON	4.7K	5%	1/4W F
R4	1-249-425-11	CARBON	4.7K	5%	1/4W F
R5	1-249-421-11	CARBON	2.2K	5%	1/4W F
R6	1-249-421-11	CARBON	2.2K	5%	1/4W F
R7	1-249-417-11	CARBON	1K	5%	1/4W F
R8	1-249-416-11	CARBON	820	5%	1/4W F
R9	1-247-843-11	CARBON	3.3K	5%	1/4W
R10	1-249-407-11	CARBON	150	5%	1/4W F

MAIN

Ref. No.	Part No.	Description			Remarks
R11	1-249-429-11	CARBON	10K	5%	1/4W
R12	1-249-417-11	CARBON	1K	5%	1/4W F
R13	1-249-416-11	CARBON	820	5%	1/4W F
R14	1-247-843-11	CARBON	3.3K	5%	1/4W
R15	1-249-407-11	CARBON	150	5%	1/4W F
R16	1-249-429-11	CARBON	10K	5%	1/4W
R17	1-247-806-11	CARBON	91	5%	1/4W
R18	1-247-806-11	CARBON	91	5%	1/4W
R19	1-249-417-11	CARBON	1K	5%	1/4W F
R20	1-249-417-11	CARBON	1K	5%	1/4W F
R21	1-249-416-11	CARBON	820	5%	1/4W F
R22	1-249-429-11	CARBON	10K	5%	1/4W
R23	1-249-416-11	CARBON	820	5%	1/4W F
R24	1-247-807-31	CARBON	100	5%	1/4W
R25	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV1	1-225-584-11	RES, VAR, CARBON 10K/10K (VOL)			
		< SWITCH >			
S1	1-771-302-11	SWITCH (POWER)			

****

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
60	1-769-080-41	CORD (WITH PLUG)	

****

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-467-817-11	ADAPTOR, AC (AC-S911) (US,CND,E)	
⚠	1-467-852-12	ADAPTOR, AC (AUS)	
⚠	1-473-581-11	ADAPTOR, AC (AC-S911) (AEP,SP)	
⚠	1-473-582-11	ADAPTOR, AC (AC-S911) (UK)	
⚠	1-693-007-21	ADAPTOR, AC (AC-S195) (Tourist)	
⚠	1-569-008-21	ADAPTOR, CONVERSION 2P (Tourist)	
	1-783-164-11	CORD, CONNECTION	
	3-866-480-11	MANUAL, INSTRUCTION (ENGLISH) (CND,AEP,UK,E,AUS,SP)	
	3-866-480-21	MANUAL, INSTRUCTION (ENGLISH/SPANISH) (US)	
	3-866-480-31	MANUAL, INSTRUCTION (DUTCH/SWEDISH/ITALIAN/FINNISH) (AEP)	

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